

SEQUENCE LISTING

<110> Alexander Blinkovsky
 Kimberly Brown
 Michael W. Rey
 Alan Klotz
 Tony Byun

<120> Polypeptides Having Dipeptidyl
 Aminopeptidase Activity And Nucleic Acids Encoding Same

<130> 5254.210-US

<140> To be assigned

<141> 2003-11-25

<150> 09/079,592

<151> 1998-05-15

<150> 08/857,884

<151> 1997-05-16

<150> 60/062,892

<151> 1997-10-20

<160> 13

<170> FastSEQ for Windows Version 4.0

<210> 1

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<212> DNA

<213> Aspergillus

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<211> 771

<212> PRT

<213> *Aspergillus oryzae*

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Glu	Ser	Arg	Thr	Leu	Ile	Pro	Ala	Asp	Lys	Ile	Pro	Thr	Gly	Lys	Glu
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Thr	Arg	Ile	Thr	Asp	Asp	Gly	Gly	Pro	Asp	Met	Phe	His	Gly	Val	Pro
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Asp	Trp	Ile	Tyr	Glu	Glu	Glu	Ile	Leu	Gly	Asp	Arg	Tyr	Ala	Leu	Trp
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Pro	Ser	Asp	Lys	Asp	Ala	Tyr	Tyr	Ile	Asp	Ile	Ser	Asp	His	Ser	Gly
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Trp	Ala	His	Leu	Tyr	Leu	Phe	Pro	Val	Ser	Gly	Gly	Glu	Pro	Ile	Pro
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Glu	Arg	Gln	Leu	Val	Tyr	Tyr	Leu	Ser	Thr	Gln	His	His	Ser	Thr	Glu
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<212> PRT

<213> Aspergillus oryzae

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<222> (1)...(20)

<223> Xaa = Any Amino Acid

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<223> Xaa = Any Amino Acid

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<212> PRT

<213> *Aspergillus oryzae*

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<212> PRT

<213> *Aspergillus oryzae*

<400> 5

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<212> PRT

<213> *Aspergillus oryzae*

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<213> *Aspergillus oryzae*

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<223> Xaa = Any Amino Acid

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<210> 8

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<212> PRT

<213> *Aspergillus oryzae*

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<211> 21

<212> PRT

<213> *Aspergillus oryzae*

<400> 9

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<212> PRT

<213> *Aspergillus oryzae*

<400> 10

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<211> 931

<212> PRT

<213> *Saccharomyces cerevisiae*

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His	Ser	Phe	Phe	Ser	Val	Asn	Lys	Phe	Asn	Arg	Arg	Trp	Gly	Glu	Trp
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Pro	Thr	Lys	Ile	Thr	Arg	Pro	Lys	Thr	Ser	Ala	Gly	Asp	Ser	Ser	Leu
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His	Phe	Ser	Pro	Ala	Tyr	Asn	Tyr	Ile	Tyr	Phe	Val	Tyr	Glu	Asn	Asn
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385					390					395					400
Lys	Ile	Lys	Tyr	Pro	Lys	Pro	Gly	Phe	Gln	Asn	Pro	Gln	Phe	Asp	Leu
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Phe	Leu	Val	Asn	Leu	Gln	Asn	Gly	Ile	Tyr	Ser	Ile	Asn	Thr	Gly	
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Gly	Gln	Lys	Asp	Ser	Ile	Leu	Tyr	Asn	Gly	Lys	Trp	Ile	Ser	Pro	Asp
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Thr	Phe	Arg	Phe	Glu	Ile	Thr	Asp	Arg	Asn	Ser	Lys	Ile	Leu	Asp	Val
		450				455					460				

Lys	Val	Tyr	Asp	Ile	Pro	Ser	Ser	Gln	Met	Leu	Thr	Val	Arg	Asn	Thr	465	470	475	480
Asn	Ser	Asn	Leu	Phe	Asn	Gly	Trp	Ile	Glu	Lys	Thr	Lys	Asp	Ile	Leu	485	490		495
Ser	Ile	Pro	Pro	Lys	Pro	Glu	Leu	Lys	Arg	Met	Asp	Tyr	Gly	Tyr	Ile	500	505		510
Asp	Ile	His	Ala	Asp	Ser	Arg	Gly	Phe	Ser	His	Leu	Phe	Tyr	Tyr	Pro	515	520		525
Thr	Val	Phe	Ala	Lys	Glu	Pro	Ile	Gln	Leu	Thr	Lys	Gly	Asn	Trp	Glu	530	535		540
Val	Thr	Gly	Asn	Gly	Ile	Val	Gly	Tyr	Glu	Tyr	Glu	Thr	Asp	Thr	Ile	545	550		555
Phe	Phe	Thr	Ala	Asn	Glu	Ile	Gly	Val	Met	Ser	Gln	His	Leu	Tyr	Ser	565	570		575
Ile	Ser	Leu	Thr	Asp	Ser	Thr	Thr	Gln	Asn	Thr	Phe	Gln	Ser	Leu	Gln	580	585		590
Asn	Pro	Ser	Asp	Lys	Tyr	Asp	Phe	Tyr	Asp	Phe	Glu	Leu	Ser	Ser	Ser	595	600		605
Ala	Arg	Tyr	Ala	Ile	Ser	Lys	Lys	Leu	Gly	Pro	Asp	Thr	Pro	Ile	Lys	610	615		620
Val	Ala	Gly	Pro	Leu	Thr	Arg	Val	Leu	Asn	Val	Ala	Glu	Ile	His	Asp	625	630		635
Asp	Ser	Ile	Leu	Gln	Leu	Thr	Lys	Asp	Glu	Lys	Phe	Lys	Glu	Lys	Ile	645	650		655
Lys	Asn	Tyr	Asp	Leu	Pro	Ile	Thr	Ser	Tyr	Lys	Thr	Met	Val	Leu	Asp	660	665		670
Asp	Gly	Val	Glu	Ile	Asn	Tyr	Ile	Glu	Ile	Lys	Pro	Ala	Asn	Leu	Asn	675	680		685
Pro	Lys	Lys	Lys	Tyr	Pro	Ile	Leu	Val	Asn	Ile	Tyr	Gly	Gly	Pro	Gly	690	695		700
Ser	Gln	Thr	Phe	Thr	Thr	Lys	Ser	Ser	Leu	Ala	Phe	Glu	Gln	Ala	Val	705	710		715
Val	Ser	Gly	Leu	Asp	Val	Ile	Val	Leu	Gln	Ile	Glu	Pro	Arg	Gly	Thr	725	730		735
Gly	Gly	Lys	Gly	Trp	Ser	Phe	Arg	Ser	Trp	Ala	Arg	Glu	Lys	Leu	Gly	740	745		750
Tyr	Trp	Glu	Pro	Arg	Asp	Ile	Thr	Glu	Val	Thr	Lys	Lys	Phe	Ile	Gln	755	760		765
Arg	Asn	Ser	Gln	His	Ile	Asp	Glu	Ser	Lys	Ile	Ala	Ile	Trp	Gly	Trp	770	775		780
Ser	Tyr	Gly	Gly	Phe	Thr	Ser	Leu	Lys	Thr	Val	Glu	Leu	Asp	Asn	Gly	785	790		795
Asp	Thr	Phe	Lys	Tyr	Ala	Met	Ala	Val	Ala	Pro	Val	Thr	Asn	Trp	Thr	805	810		815
Leu	Tyr	Asp	Ser	Val	Tyr	Thr	Glu	Arg	Tyr	Met	Asn	Gln	Pro	Ser	Glu	820	825		830
Asn	His	Glu	Gly	Tyr	Phe	Glu	Val	Ser	Thr	Ile	Gln	Asn	Phe	Lys	Ser	835	840		845
Phe	Glu	Ser	Leu	Lys	Arg	Leu	Phe	Ile	Val	His	Gly	Thr	Phe	Asp	Asp	850	855		860
Asn	Val	His	Ile	Gln	Asn	Thr	Phe	Arg	Leu	Val	Asp	Gln	Leu	Asn	Leu	865	870		875
Leu	Gly	Leu	Thr	Asn	Tyr	Asp	Met	His	Ile	Phe	Pro	Asp	Ser	Asp	His	885	890		895
Ser	Ile	Arg	Tyr	His	Asn	Ala	Gln	Arg	Ile	Val	Phe	Gln	Lys	Leu	Tyr	900	905		910

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